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Third Preliminary Amendment

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

as a core and titanium oxide deposited on the surface of the inorganic oxide wherein the titanium localization index (B/A) represented by the ratio of the proportion of titanium (Ti) to the sum of the constituent metal (M) of the inorganic oxide and titanium (Ti) determined by X-ray photoelectron spectroscopy (XPS) [B = Ti XPS /(Ti XPS + M XPS)] to the bulk mixing molar

1. (Previously Presented) Layered porous titanium oxide comprising an inorganic oxide

ratio of titanium (Ti) to the sum of the constituent metal (M) of the inorganic oxide and titanium

(Ti) [A = Ti/(Ti + M)] is 1.6 or more, the repeat distance between the crystal lattice planes of titanium oxide on the surface of the inorganic oxide is 50Å or less, and the titanium oxide is

deposited on the surface of the inorganic oxide so as to be chemically and/or microscopically

united to the inorganic oxide.

2. (Original) Layered porous titanium oxide as described in claim 1 wherein the amount

of deposited titanium oxide is 13-60 mass%.

3. (Canceled)

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4. (Previously Presented) Layered porous titanium oxide as described in claim 1

wherein the pore sharpness degree is 50% or more.

5. (Previously Presented) Layered porous titanium oxide as described in claim 1

wherein the pore volume is 0.3 mL/g or more.

6. (Previously Presented) Layered porous titanium oxide as described in claim 1

wherein the specific surface area is 100 m²/g or more.

7. (Previously Presented) Layered porous titanium oxide as described in claim 1

wherein the inorganic oxide is a hydrosol, a hydrogel, a xerogel, a hydroxide, or a hydrated oxide

and the titanium oxide is deposited on this organic oxide.

8. (Previously Presented) Layered porous titanium oxide as described in claim 1

wherein the inorganic oxide is synthesized by the pH swing operation.

9. (Previously Presented) Layered porous titanium oxide as described in claim 1

wherein the inorganic oxide is at least one selected from the group of alumina, silica, magnesia,

silica/alumina, silica/titania, alumina/zirconia, silica/zirconia, and silica/magnesia.

10. (Previously Presented) Layered porous titanium oxide as described in claim 1

wherein the inorganic oxide is needle-shaped or column-shaped.

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11. (Previously Presented) Layered porous titanium oxide as described in claim 1

wherein layered porous titanium oxide is obtained in the depositing step which comprises

supplying a raw material titanium solution and a pH adjusting agent in the presence of an

inorganic oxide and depositing titanium oxide on the surface of the inorganic oxide in the pH

range between the isoelectric point of titanium oxide and that of the inorganic oxide.

12. (Original) Layered porous titanium oxide as described in claim 11 wherein the

layered porous titanium oxide is obtained by the calcining treatment performed in the

temperature range of 90-900 °C after the depositing step.

13. (Original) A process for producing layered porous titanium oxide comprising an

inorganic oxide as a core and titanium oxide deposited on the surface of the inorganic oxide

which comprises a depositing step for supplying a solution of titanium chloride, titanium sulfate,

or titanyl sulfate in the presence of an inorganic oxide and a pH adjusting agent in the presence

of an inorganic oxide and depositing titanium oxide on the surface of the inorganic oxide in the

pH range bewteen the isoelectric point of titanium oxide and that of the inorganic oxide.

14. (Original) A process for producing layered porous titanium oxide as described in

claim 13 which comprises preparing a dispersion containing the inorganic oxide by the pH swing

operation in the pH swing step before the depositing step for depositing titanium oxide on the

surface of the inorganic oxide and supplying the dispersion as it is to the ensuing depositing step.

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15. (Currently Amended) A process for producing layered porous titanium oxide as

described in claim 13 [[or 14]] which comprises a calcining step for performing a calcining

treatment in the temperature range of 90-900°C following the depositing step.

16. (Currently Amended) A process for producing layered porous titanium oxide as

described in any one of claims 13 to 15 claim 13 which comprises letting a particle growth

inhibitor exist in the reaction system in the step for depositing titanium oxide on the surface of

the inorganic oxide, said particle growth inhibitor containing at least one element selected from

the group of silicon, phosphorus, magnesium, calcium, barium, manganese, aluminum, and

zirconium.

17. (Currently Amended) A catalyst comprising the layered porous titanium oxide

described in any one of claims 1 to 12 claim 1.

18. (Currently Amended) A catalyst comprising the layered porous titanium oxide

described in any one of claims 1 to 11 claim 1 as a carrier and a catalyst metal deposited on this

carrier.

19. (Original) A catalyst comprising the layered porous titanium oxide described in

claim 12 as a carrier and a catalyst metal deposited on this carrier.

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